

Technical Soil Descriptions

Technical soil descriptions describe the characteristics or properties (physical and chemical) of the soil including the parent material in which it formed. A pedon, a small three-dimensional area of the soil, serves as the reference point for the technical or soil series description. The soil description compares the soil to similar and other nearby soils and also includes a range of important characteristics. The detailed description method follows standards outlined in the [Soil Survey Manual](#) and many of the technical terms used in the description are defined in [Soil Taxonomy](#).

Counties with Published Soil Surveys

Technical soil descriptions are located in the county soil survey descriptive legend.

Counties without Published Soil Surveys

Technical soil descriptions can be found in adjacent county published soil survey descriptive legends or at our [Official Soil Series Description](#) web site.

This section includes:

- (a) **Classification of the soils**

Holt County, Missouri
 Classification of the Soils

(An asterisk in the first column indicates a taxadjunct to the series. See text for a description of those characteristics that are outside the range of the series.)

Soil name	Family or higher taxonomic class
BLENCOE-----	Clayey over loamy, montmorillonitic, mesic Aquic Hapludolls
COLO-----	Fine-silty, mixed, mesic Cumulic Endoaquolls
CONTRARY-----	Fine-silty, mixed, mesic Dystric Eutrochrepts
DOCKERY-----	Fine-silty, mixed, nonacid, mesic Aquic Udifluvents
DUPO-----	Coarse-silty over clayey, mixed, nonacid, mesic Aquic Udifluvents
EXIRA-----	Fine-silty, mixed, mesic Typic Hapludolls
GILLIAM-----	Fine-silty, mixed, mesic Fluvaquentic Hapludolls
GRABLE-----	Coarse-silty over sandy or sandy-skeletal, mixed (calcareous), mesic Mollic Udifluvents
HAMBURG-----	Coarse-silty, mixed (calcareous), mesic Typic Udorthents
HAYNIE-----	Coarse-silty, mixed, superactive, calcareous, mesic Mollic Udifluvents
JUDSON-----	Fine-silty, mixed, mesic Cumulic Hapludolls
KENMOOR-----	Sandy over clayey, mixed (calcareous), mesic Aquic Udifluvents
KENRIDGE-----	Fine-silty, mixed, mesic Cumulic Hapludolls
KNOX-----	Fine-silty, mixed, mesic Mollic Hapludalfs
*LAMONI-----	Fine, montmorillonitic, mesic Aquertic Argiudolls
LETA-----	Clayey over loamy, montmorillonitic, mesic Fluvaquentic Hapludolls
*LUTON-----	Fine, montmorillonitic, mesic Vertic Endoaquolls
MARSHALL-----	Fine-silty, mixed, mesic Typic Hapludolls
*MARSHALL-----	Fine-silty, mixed, mesic Typic Hapludolls
MODALE-----	Coarse-silty over clayey, mixed (calcareous), mesic Aeris Fluvaquents
MONONA-----	Fine-silty, mixed, mesic Typic Hapludolls
*MONONA-----	Fine-silty, mixed, mesic Typic Hapludolls
MOTARK-----	Coarse-silty, mixed, nonacid, mesic Oxyaquic Udifluvents
NAPIER-----	Fine-silty, mixed, mesic Cumulic Hapludolls
NODAWAY-----	Fine-silty, mixed, nonacid, mesic Mollic Udifluvents
SARPY-----	Mixed, mesic Typic Udipsammens
*SHELBY-----	Fine-loamy, mixed, mesic Typic Argiudolls
TIMULA-----	Coarse-silty, mixed, mesic Typic Eutrochrepts
VANMETER-----	Fine, illitic, mesic Oxyaquic Eutrochrepts
WABASH-----	Fine, montmorillonitic, mesic Cumulic Vertic Endoaquolls
ZOOK-----	Fine, montmorillonitic, mesic Cumulic Vertic Endoaquolls